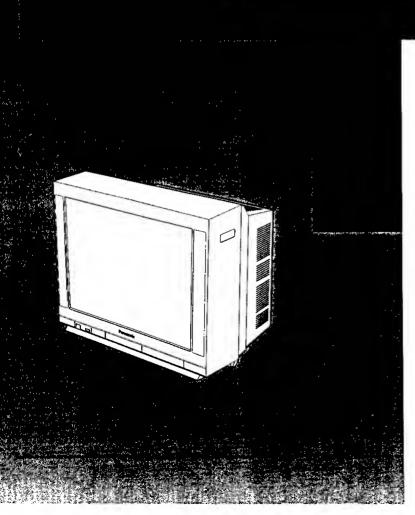


Panasonic

Colour Television Operating Instructions

TX-29P100 Series TC-29P100 Series TX-33P100 Series TC-33P100 Series TX-68P100 Series TX-79P100 Series



[tau]
FLAT
DIGITAL

This is a combined Operating Instruction manual for all the above series of models.

Please read these instructions before operating your set and retain them for future reference.

TQBC0110

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television set.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the Model Number and Serial Number of your set in the space provided on the rear cover of these Instructions.

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Warnings and Cautions

<u> </u>		
	Unplug the power cord in the event of any malfunction (screen goes blank, no sound, odd sounds, smoke or unusual odors coming from the unit). Unplug the power cord if foreign matter or water falls into the unit, or if the unit is dropped or the cabinet is damaged.	DO NOT use this unit near water. (near a bath tub, etc.)
	DO NOT place any of the following on the unit: Flower vases, flower pots, cups, small metal objects, or cosmetics containers, chemicals or water.	DO NOT use if the power cord or power plug is damaged,or if the plug does not fit tightly into the socket.
	DO NOT insert foreign objects (metal or easily flammable objects).	DO NOT use at a voltage other than indicated
	TAKE CARE NOT to damage the power cord.	DO NOT remove the rear cover as live parts and High Voltage components are accessible when the rear cover is removed.
	DO NOT touch the aerial cable and this unit when there is lightning.	DO NOT place in an unstable location

 ∆ Cautions		
	DO NOT place in humid or dusty location, or areas exposed to smoke or steam. DO NOT place in direct sunlight and other sources of direct heat.	DO NOT touch the power plug if your hands are wet.

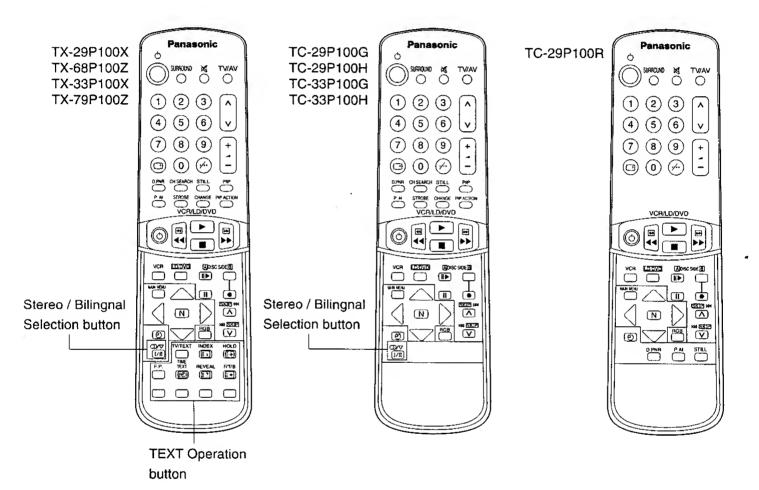
Warnings and Cautions

_ Cautions		
	DO NOT stand, or place heavy objects on the unit. Particular care should be taken by families with small children.	Place in a safe location.
	Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 10cm(is left all around this unit even when it is placed inside a cabinet or between shelves.	Turn the power "Off" before connecting other electrical equipment.
++0	Before cleaning, unplug the power plug from the socket.	DO NOT joint the unit.
	Unplug the power plug from the socket if you are not going to use the unit for an extended period.	Ask your sales outlet to install the aerial.
Cleaning		
	The unit contains many plastic parts. For this reason DO NOT use benzine, thinner or other chemicals to clean the unit.	Dust will accumulate on the picture screen. Please wipe with a soft cloth from time to time. if you use a chemically treated cloth, please be careful to follow the instructions that come with the cloth.
	DO NOT bring into contact with insecticide or other volatile substances. DO NOT allow the unit to come into contact for extended periods with rubber or vinyl products.	Remove dirt and soiling by wiping with a light cloth. Even if the unit is heavily soiled, do not apply cleaner directly to the unit. Soak a cloth in a solution of neutral cleanser thinned with water. Then wring out the cloth, wipe the unit clean, and finish by wiping with a dry cloth.

Preparation

How to Use This Manual

- 1.Check the Model Number of your TV set; the Model Number is shown on the rear cover name plate on the set. Use the table on the opposite page to confirm which features your particular Model is equipped with. This will help you to known which sections of the manual apply to your set.
- 2. Check the Part Number on the rear of your Remote Control handpiece, and note the functions available, as shown below.



Preparation

Quick Reference Guide for your TV Set

Please check the model number of your set.

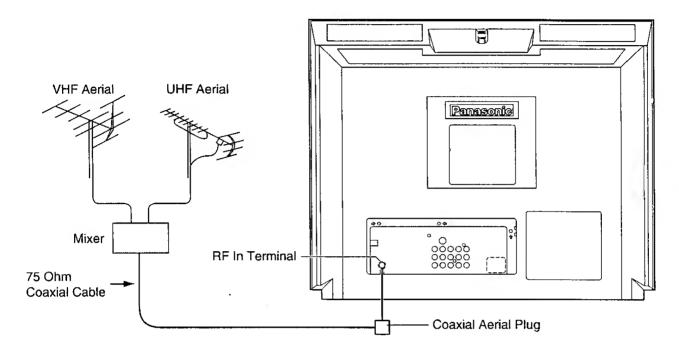
This Manual applies to several Models and there are slight differences among them.

Please check the table below to see what your TV is equipped with before you begin using these Operating Instructions.Instructions are given for all functions, please disregard these which do not apply to your TV.

	Mode Numi	el ber	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	HO1 /	X 600 100 100 100 100 100 100 100 100 100	,	. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		400 de	X.300.7	at /	
	China	*				*	*				,	, , , , , , , , , , , , , , , , , , , ,
	Hong Kong		*					*				
Destiration	AUSTRALIA			*							*	
	NZ			*							*	
	Southeast Asia				*				*			
	Middle East									*		
Stereo	NICAM I NICAM B,G NICAM D A2(German)	*	*	*	*		*	*	*	*	*	P43
	моно					*						
	English	*	*	*	*	*	*	*	*	*	*	
Multi Language	Chinese	*	*	*	*	*	*	*	*		*	P49
	Arabic									*		
Headphones	2 Systems (Main/Sub)	*	*	*	*		*	*	*	*	*	P18
ricaupilones	1 System					*						P19
CATV	Hyper	*	*	*	*	*	*	*	*	*	*	P62
	AC Auto110-240V 50/60Hz				*				*	*		
Power Source	AC 230•240V 50Hz	AC 230•240V *		*	P62							
	AC 220V 50/60Hz	*	* (only 50Hz)	*		*	*	* (only 50Hz)			*	
Tuning System	Freguency synthesizer 100Position	*	*	*	*	*	*	*	*	*	*	P63
Receiving System	21Systems	*	*	*	*	*	*	*	*	*	*	P62

^{*:} Function available

Connecting the Aerial Cable to the RF In Terminal

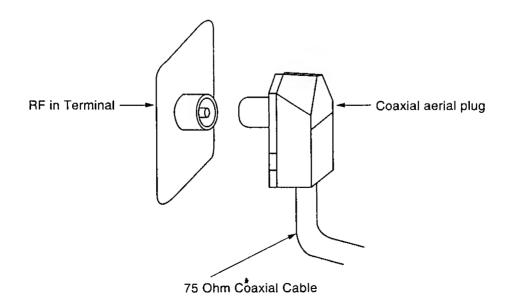


To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.

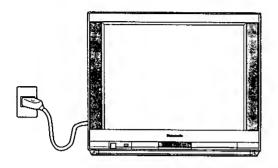
If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and your television receiver.

Your local Television Service Centre or Dealer may be able to assist you in obtaining the correct Aerial system for your particular area and accessories required.

Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.



Connecting the Plug to the Wall Outlet

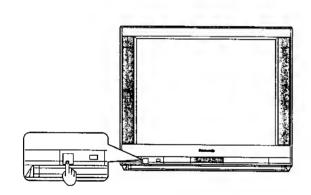


Note:

Mains plug types vary between countries. The mains plug shown at left may therefore not be the type fitted to your set.

When connecting the mains plug to the wall outlet, the power indicator will light (Orange)

How to Turn the Power On



Push the Power switch on Television to turn the set on.

The Power Indicator will light. .

Power-OFF Orange

Stand-by 🖰 Red

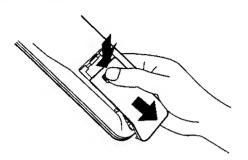
Power-ON Green

Note:

When in the Stand-by condition (Refer to page 34), it is possible to turn the TV set on by pushing the "Power(Standby)"Button any of the "Direct Programme Number Selection" Buttons(0~9) and Programme Number Up and Down Buttons on the TV set or Remote Control.

Battery Installation

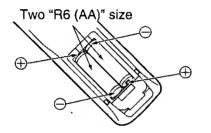
1



Open the cover.

Apply slight downward pressure while pulling towards the bottom.

2

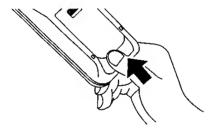


Batteries: Use two "R6 (AA)"size batteries.

Insert the batteries ensuring correct polarity.

This is identifiable by the "+" and "-" symbols on both the batteries and inside the battery compartment.

3



Replace the cover.

Do not use rechargeable (Ni-Cd) batteries.

They are different in shape and performance and may fail to ensure correct operation.

New Batteries

The incorrect use of batteries can cause electrolyte leakage which will corrode the Remote-Control or cause the batteries to burst.

Old Batteries



Replace both batteries at the same time.



Don't mix battery types (alkaline with carbon zinc, etc.)



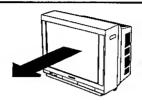
Don't Recharge.

Geomagnetism Correction

Since a large picture tube has been used, blurring of colours and strange discoluration patches may occur depending on the direction the television faces. This is caused by a geomagnetic effect. For optimum viewing, it is necessary to adjust the TV placement.

The power should be off when determining the installation location and direction.

At this time please verify what direction the TV screen is to face (direction indicated by the arrow)



2

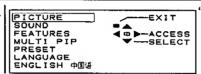


Push the "Main Power Switch".

3



Push the "Main Menu" Button.

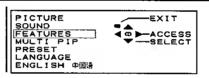


"Main Menu" Condition.

4



Select the Features Menu by using the Position Up "^" or Down" button.



5



Push the Position Left "<" or Right ">" Button.

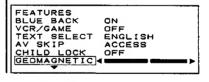


"Features Menu" Condition.

6



Select the Geomagnetic Mode by using the Position Up "\" or Down "\" Button.



7



Push the Position Left "<" or Right ">" Button to adjust the placement so that the coloured patches in the four corners of the screen do not appear.

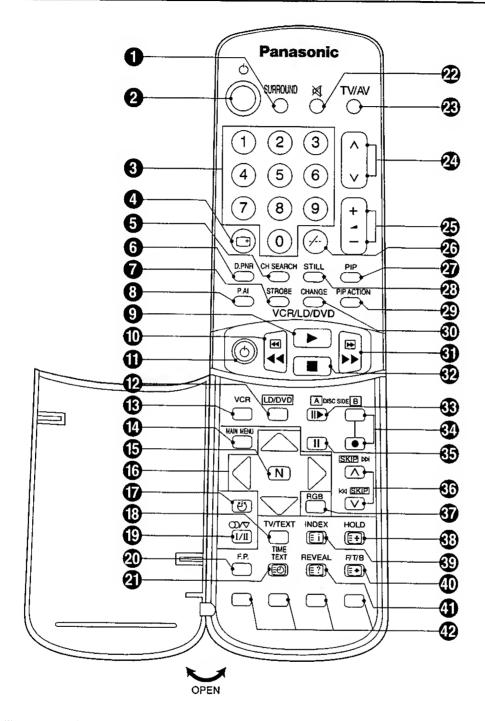


* Helpful Hint

- (1)If geomagnetic changes still cause colour patches on the screen even after the TV is installed, turn the power off and turn back on again after about 30 minutes.
- (2)Adjustment for geomagnetism should be performed every time the location of the TV is changed.
- (3)In some cases colour patches will not be completely eliminated even after adjustment, particularly in ferro-concrete buildings and other structures susceptible to geomagnetism. In these cases adjust by changing the installation location.

Location of Controls

Remote Control



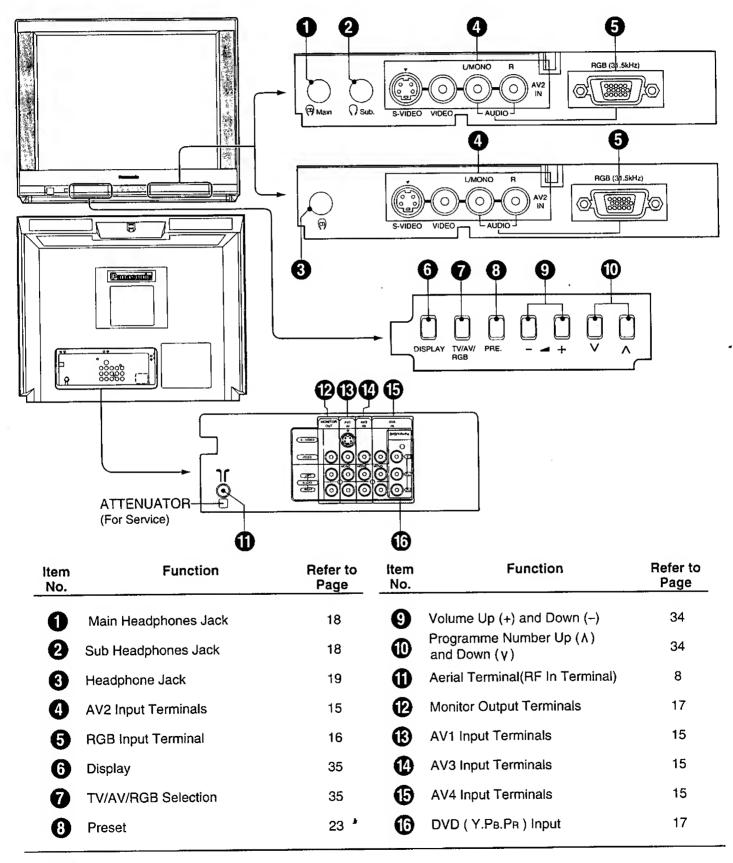
- (1)This illustration shows the Remote Control with maximum features.
- (2) The TEXT Operation and Stereo buttons not present for Models not equipped with certain features. The diagram on page 6 and the table on page 7 identify such variations.

Location of Controls

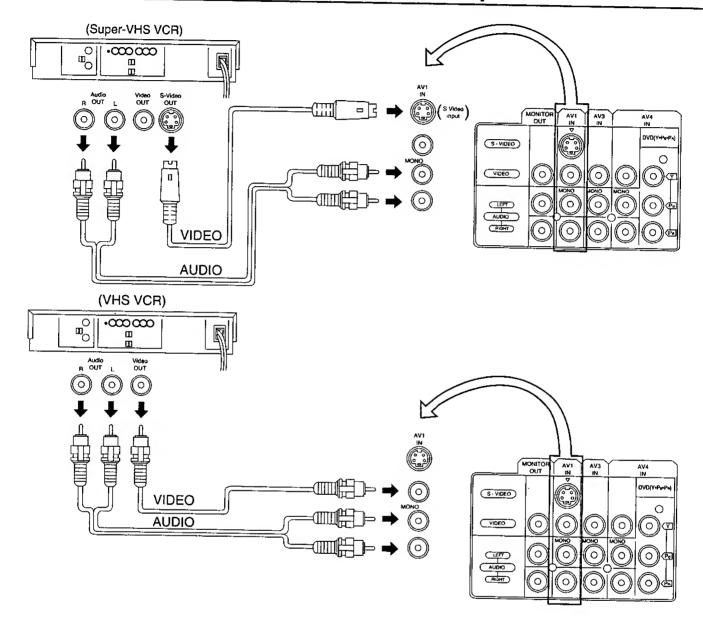
Item No.	Function	Refer to Page	Item No.	Function	Refer to Page
0	Surround	42	42 22 Sound Mute		35
2	Power(Stand-by)	34	23	TV/AV Mode Selection	35
3	Direct Programme Number Selection	34	24	Programme Number Up and Down	34
4	Recall	35	25	Volume Up and Down	34
6	Channel Search	41	26	Two Digit Programme Number Selection	34
6	D.PNR	46	2	Picture in Picture Selection	38
7	Strobe	40	23	STILL	41
8	P.AI	46	29	PIP Action	39
9	VCR/LD/DVD Play	59	30	Main/Sub Picture Change	39
1	VCR/LD/DVD Rewind/Review	59	1	VCR/LD/DVD Fast Forward/Cue	59
•	VCR/LD/DVD Power	59	32	VCR/LD/DVD Stop	59
12	LD/DVD button	58	33	VCR Still/Advance (VCR) DISC SIDE A Selection (LD/DVD)	59
(3)	VCR button	58	34	VCR Record (VCR) DISC SIDE B Selection (LD/DVD)	59
•	Main Menu	20	3	VCR/LD/DVD Pause Still	59
(Normalisation	44,45	36	Programme Number Up and Down (VCF Programme Number Skip (LD/DVD)	³⁾ 59
16	Position button	20	3	RGB Mode Selection	35
•	OFF Timer Selection	35	33	TEXT Hold	55
1 3	TV/TEXT Selection	55	3 9	TEXT Index	55
(19)	Stereo/Bilingual Sound Selection (Not equipped for TC-29P100R)	43	40	TEXT Full / Top / Bottom Selection	55
20	TEXT Favourite Page Selection	55	4	TEXT Reveal	55
3	Time TEXT	56 🎍	42	TEXT Colour-coded Button	55

Location of Controls

Controls and Terminals on the TV



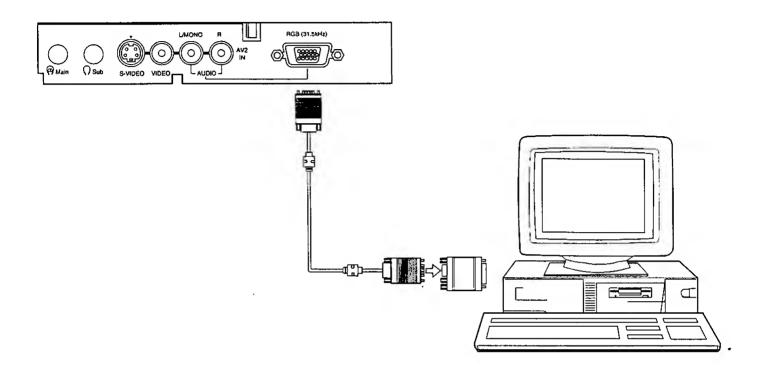
How to connect the "AV1,2,3 or 4" Input Terminals



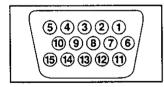
- (1)When AV1, AV2, AV3 or AV4 is selected, and that AV mode has no input picture signal, the Background Colour of the TV screen will change. (This only occurs if the Blue-Back function is set to the ON condition; refer to page 48 for details.)
- (2)When an S-Video cable is connected to the S-Video terminal, the Video input will be automatically switched off for that AV mode.
- (3) When a Monaural VCR is used, connect the Monaural Audio cable to the Audio "L" (Left) terminal.
- (4)Similar connections are available at the AV1, AV2, AV3 and AV4 input terminals.

 Select the desired AV input position by pushing the TV/AV or TV/AV/RGB buttons. (Refer to page 35)
- (5) The AV4 audio input terminals serves as the audio input terminal for both the Video input and for the DVD input.

How to connect the RGB Input Terminals



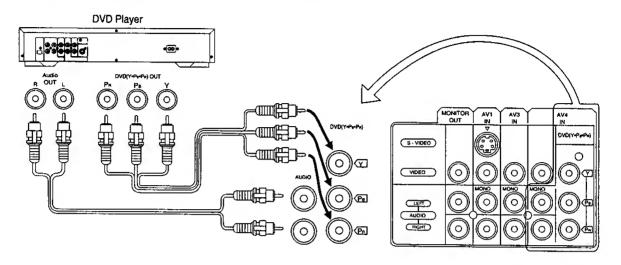
- This unit can be connected to PCs with 640×480 (31.5 kHz / 60 Hz) or 640×400 (31.5 kHz / 70 Hz) pixel.
- In some cases other PCs may not work with this TV set.
- There is no audio signal in RGB input.
- The sound of the RGB mode is combined with the Audio signal of AV2.
- Some PC models cannot be connected to the TV set.
- A commercially sold adapter is required to use the RGB cable (D-sub 15P) to connect a PC-98 series computer (which has a D-sub 15P terminal) or a Macintosh computer to the TV set.
- There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.
- Signal Names for D-sub 15P Connector



Pin Layout for RGB Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND(Ground)	11)	GND(Ground)
2	G	7	GND(Ground)	12	NC
3	В	8	GND(Ground)	13	HD/SYNC
4	GND(Ground)	9	NC(not conncted)	14)	VD
(5)	GND(Ground)	10	GND(Ground)	15)	NC(not conncted)

How to connect the DVD Input Terminals

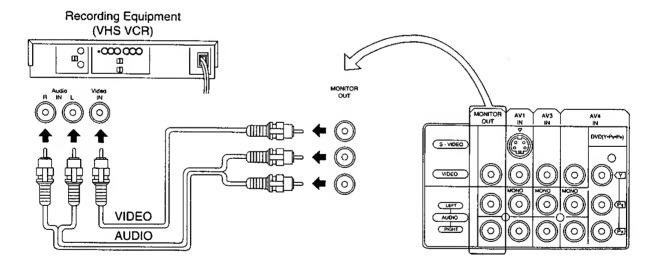


Note:

- (1)THe AV4 audio signal is common for both AV4 and DVD input signal terminals.
- (2) The DVD signal input terminal takes priority over the AV4 video signal input terminal.

How to connect the AV Monitor Output Terminals to other equipment.

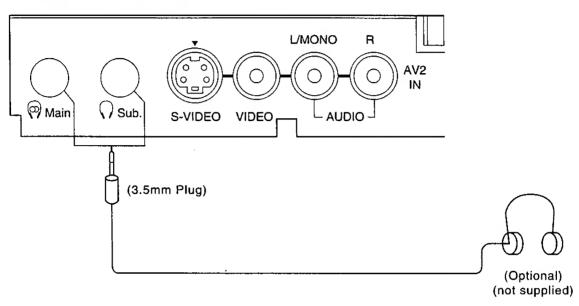
The "Monitor Out" Terminals output the same signals as main picture on the TV screen and sound from the speaker at that time, e.g. TV programmes or signals from AV1, AV2, AV3 or AV4 input.



- (1)Never connect the same video recorder with both the VIDEO IN and MONITOR OUT terminals on this TV set, as this could cause incorrect operation.
- (2) The monitor output emits the main picture normal video and audio signals.
- (3) Teletext display on screen will not be output at the MONITOR OUT terminals.
- (4)Even if the television is in picture-in-picture condition, MONITOR OUT terminals output the same signals as main picture on the screen and sound from speakers. Sub picture including strobe, still, channel search, etc. will not be output at the MONITOR OUT terminals.
- (5) The RGB mode signal, and DVD signal (Y,PB,PR) are not output at the MONITOR out terminals.

Connecting Headphones (For TC-29/33P100G,TC-29/33P100H,TX-29/33P100X,TX-68/79P100Z)

Connect headphones as follows.



You can listen to sound from each of the headphone plugs as shown below.

Scr	een condition	Speaker Sound	Main Headphones	Sub Headphones	Monitor Output
Single picture/	А	A	A	A	A
Teletext		(Stereo)	(Stereo)	(Mono)	(Stereo)
Picture in Picture	АВ	A (Stereo)	A (Stereo)	B (Mono)	A (Stereo)
Picture in Picture/	В А	B	B	A	B
CHANGE		(Stereo)	(Stereo)	(Mono)	(Stereo)

Main Headphones plug:

When a Main Headphones plug is inserted into the Headphones socket all speakers will be automatically disconnected; only the Main Headphones will function.

Use Volume Up "+" or Down "-" Button to control volume level.

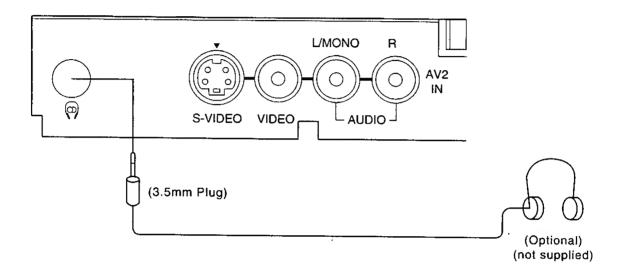
Sub Headphones plug:

For the sub Headphones volume control, refer to page 39.

Connecting Headphones (Only for TC-29P100R)

Connect headphones as follows.

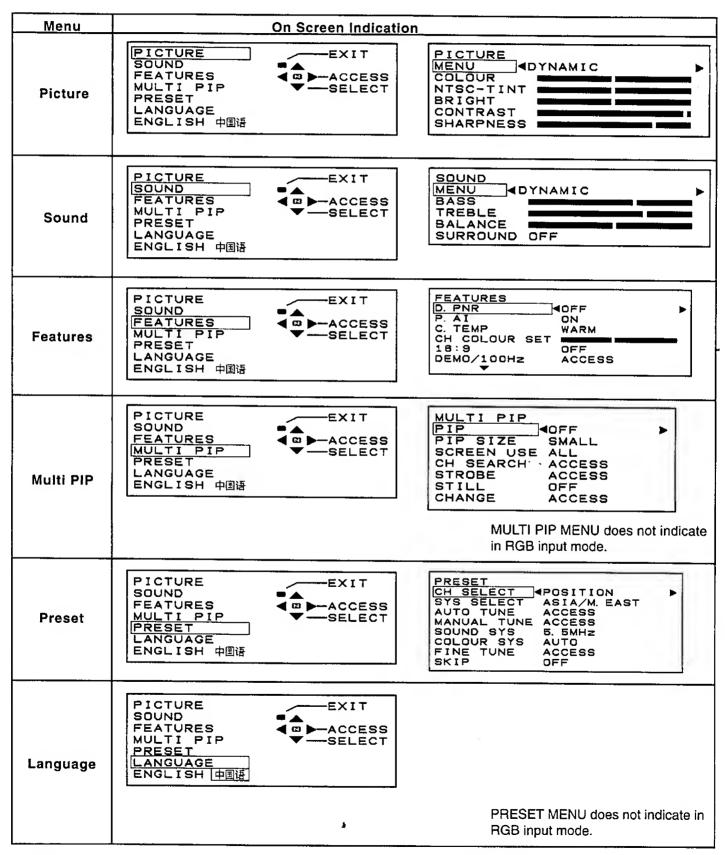
When a Headphones plug is inserted into the Headphones socket all speakers will be automatically disconnected; only the Headphones will function.



Flow Chart of Main Menu

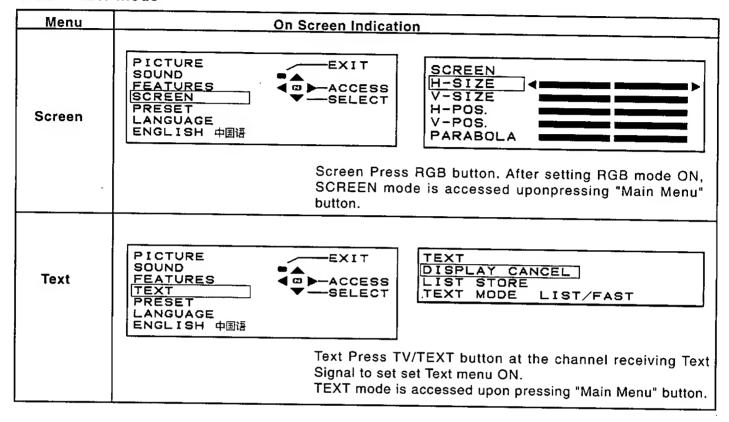
When the "MAIN MENU" button is pushed at the Main Menu screen, the screen display will return to the normal viewing condition.

When the "MAIN MENU" button is pushed at each MENU screen (Picture, Sound, Features, Language, Preset, Multi PIP), the screen display will return to the Main Menu screen.



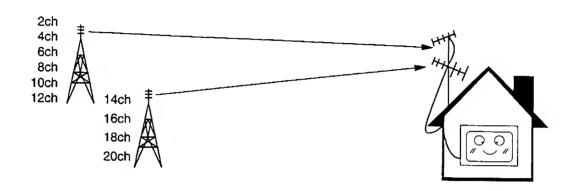
Flow Chart of Main Menu

RGB / TEXT mode



Channel Selection

Select the most easily viewed channel selection method.



Example

Programme Number	Channel Display	Received Channel
1	2	2
2	4	4
3	6	6
4	8	8
5	10	10
6	12	12
7	14	14
8	16	16
9	18	18
10	20	20

POSITION SELECT

When the Channel Selection is on POS. (Position), and Auto Tune is performed, the unit memories the channels Tuned in order from Programme No.1.

Push the button ① to view channel 2.

Push the button (2) to view channel 4.

Push the button ③ to view channel 6.

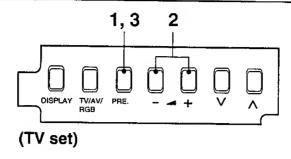
During Position mode various reception channels can be viewed.

Example

Programme Number	Channel Display	Received Channel
1		_
2	2	2
3	_	_
4	4	4
5	-	_
6	6	6
7	_	_
8	8	8
9	_	_
10	10	10
:	•	:
20	20	20

DIRECT SELECT

When the Channel Selection is on DIRECT, and Auto Tune is performed, the unit memories the programme number which is the same as the channel Tuned. This method allows you to select the desired channel by pushing the channel display number directly on the remote control to select the station. The channel display numbers for the broadcast stations in each country are listed on Page 25.

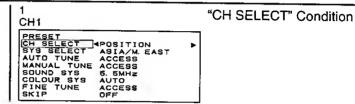


Before Country System Selection and AUTO tuning, set the "CHANNEL SELECT" mode, as detailed below.

1



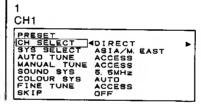
Push the "PRE." (PRESET) Button, setting the Preset Menu to "CH SELECT".



2



Select the "CH SELECT (Channel Select)" Mode by pushing the Volume Up "+" or Down "-" Button.



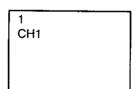
Setting range when the "POSIRION" has been selected: Position 0-99 Setting range when the "DIRECT" has been selected: Channel 1-125

The channel select indicator will change as follows.
DIRECT↔POSITION.

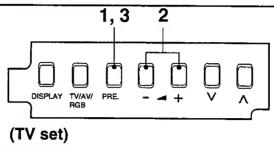
3



Push the "PRE." (PRESET) Button 8 times.



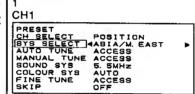
Country System Selection



Before AUTO tuning and MANUAL tuning, set the "SYSTEM SELECT" mode, as detailed below.

1

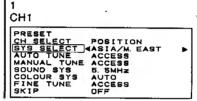
Push the "PRE." (PRESET) Button twice, setting the Preset Menu to "SYS SELECT".



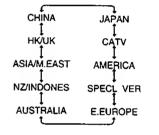
"SYS SELECT" Condition.

2

Select the appropriate System by pushing the Volume Up "+" or Down "-" Button.



The system select indicator will change as follows.



3



Push the "PRE." (PRESET) Button 7 times.

This returns the set to the normal viewing condition.

System Select by Country

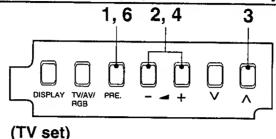
SYSTEM SELECT	COUNTRY
CHINA	China
HK/UK	Hong kong, United Kingdom
ASIA/M•E	Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc.
NZ/INDONES	New Zealand, Indonesia, etc.
AUSTRALIA	Australia
E•EUROPE	CIS, Poland, etc.
SPECL VER	South Africa
AMERICA	U.S.A., Chile, Mexico, Panama, Pelu, Philippines, Taiwan, Venezuela, etc.
CATV	USA CATV
JAPAN	Japan •

Channel Allocation

- CATV (USA CATV) channel numbers as recommended by the joint EIA/NCTA Engineering committee and published as EIA INTERIM STANDARD No.6-CABLE TELEVISION CHANNEL IDENTIFICATION PLAN-MAY 1983.
- The receiving channels are as follows;

SYS SELECT	CHINA	HK/UK	ASIA/M•E	NZ/INDONES	AUSTRALIA	E•EUROPE	SPECL VER	AMERICA	CATV	JAPAN
CH DISPLAY					RECEIVE	CHANNEL				07.11.74.4
0 1 2 11 12 13 14 20	12 13	- - - - - - - - - 21	- 2 5 11 12 - - - 21	- 1 2 5 11 - - - - 21	0 1 2 5 11 12 - - -	- 1 2 5 11 12 - - - 21	1 2 3 11 12 13 -	- 2 (13 14	1 2	1 2 () 12 13 ()
21 28 57 58 62 63 69	57	62 63 69	62 63 69	62 63 69	1 - 28	2 62 69 69	21 62 63 69	62 63 69	62 63	62 C13
70 73 74 75 76 77 78 79		- S'1 S'2 S'3 - -	- + - 5'1 5'5'3 5' 1	- - 5'1 5'2 5'3 - -	111111	 S'1 	- S'1 S'2 S'3 -	-		
80 81 \$ 89	Z1	S1 S2 S10	\$1 \$2 \$10	\$1 \$2 \$10	- - - -	S1 S2 S10	S1 S2 \ S10	- - -	}	}
90 91 92 93 94 95 96 97 98 99	Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z17 Z18 Z19	\$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20	\$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20	\$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20	5A 9A - - - - - -	S11 S12 S13 S14 S15 S16 S17 S18 S19 S20	- S14 S15 S16 S17 S18 S19 S20	-	99	C49
100 \{\} 117 \{\} 120 \{\} 125	Z20 \sqrt{237} 	\$21 \$41 - -	S21 S41 -	\$21 \$41 - -	- - - - -	S21 S41 -	S21 S41	- - - - -	100	- - - - -

Automatic Tune (Channel Select and Country System must already be set; Refer to pages 22 to 25)

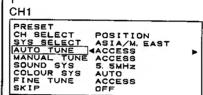


This TV uses automatic tuning to determine whether or not a broadcast signal is being sent which it can receive, and automatically prepares so that the channel selection can respond to both the position select and direct select modes.

1



Push the "PRE." (PRESET) Button 3 times.

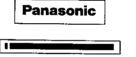


Automatic Search "AUTO TUNE" Condition.

2



Push the Volume Up "+" or Down "-" Button.



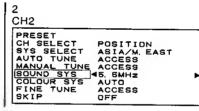
Search Start.

The best tuning position is automatically memorized.

3



After all stations are tuned, the on-screen display will automatically change from "AUTO TUNE" to "SOUND SYS" Position. Confirm the sound condition of each Programme Number by using the Programme Number Up "^" Button.



If the Sound is not clear or no sound is produced on a Programme Number, then follow the next Step 4.

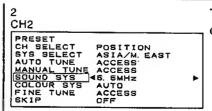
Note:

When sound volume is too small to confirm, turn it up by using the sound volume button on the remote control.

4



If necessary, push the Volume Up "+" or Down "-" Button, to improve the Sound quality.



The sound indicator will change as follows.

4.5MHz ← → 5.5MHz ↑ ↑ ↑ 6.5MHz ← → 6.0MHz

5



Use the Programme Number Up "^" button to sequentially check each station.

If necessary, repeat steps 3 to 4 for each Programme Number.

6



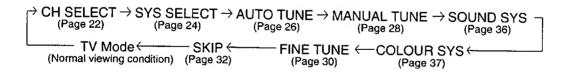
After all stations are tuned, push the "PRE." (PRESET) Button 4 times.

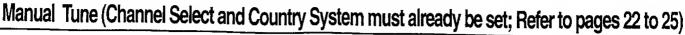
This returns the set to the normal viewing condition. Programme Number memory locations.

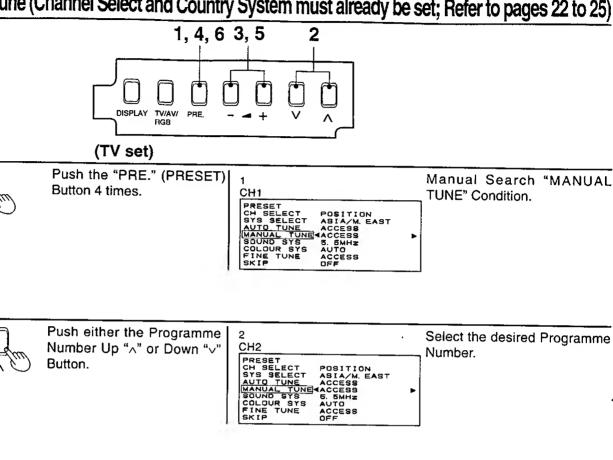
* Helpful Hint

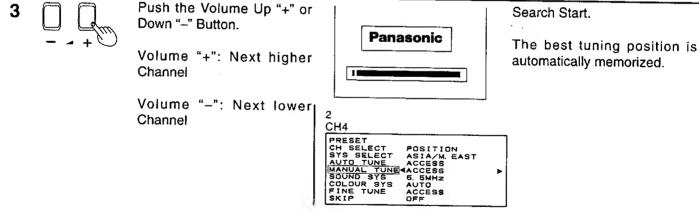
- (1)To tune, push the Main Menu Button and Position Button on the Remote Control.

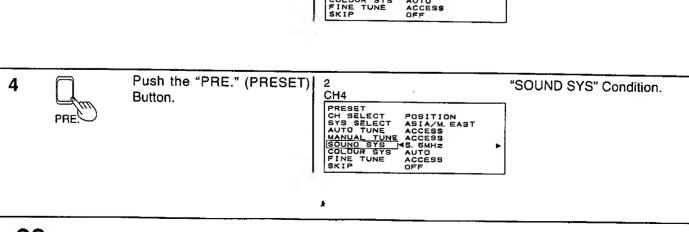
 By following the display in the Preset Menu, setting can be formed using only the Remote Control.
- (2)If a clear picture with correct colours cannot be obtained when a Broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 37.
- (3) After the Automatic tune is finished, push the Programme Number "Up" Button to confirm the tuning condition for each Programme Number. If some Programme Numbers are unused, it is possible to skip such Programme Numbers. Please refer to the Programme Number Skip operation on page 32.
- (4) Repeated pushing of the "PRE." (PRESET) button changes the Preset Menu as follows;



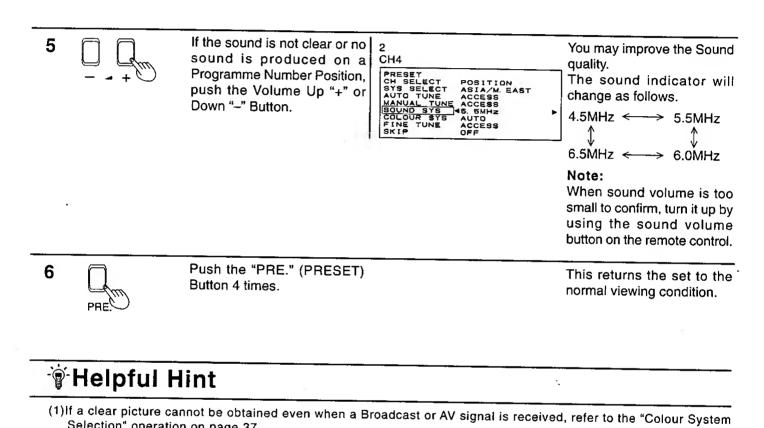








Selection" operation on page 37.



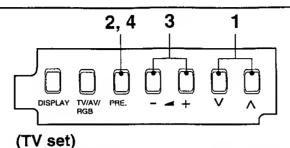
(2) After the Manual tune is finished, push the Programme Number "Up" Button to confirm the tuning condition for each Programme Numbers. If some Programme Numbers are unused, it is possible to skip such Programme

(3)When using a VCR without video and audio input/output terminals, it is convenient to connect the aerial cable as indicated in the instruction manual of VCR and to set the designated channel to programme No."0". In that case, perform manual tune after setting the colour system and sound system in advance. Further, in multi-system VCR,

Numbers. Please refer to the Programme Number skip operation on page 32.

it is more convenient to set the designated channel to several programme Numbers.

Fine Tuning



Under normal reception conditions this function is not required or necessary. However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

1 🛛 🖳

Select the channel which you want to improve, using the Programme Number Up "\" or Down "\" Button.

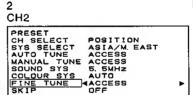
2

Select the desired Programme Number.

2



Push the "PRE." (PRESET) Button 7 times, setting the Preset menu to "FINE TUNE".

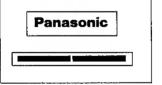


Fine Tune Condition.

3



Push and hold the Volume Up "+" or Down "-" Button until the clear picture is received.



Fine Tune Start.

The AFC function is deactivated.

The " " symbol appears to the left of the Programme Number.

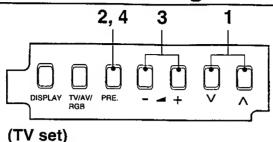
PRESET
CH SELECT POSITION
SYS SELECT ASIA/M EAST
AUTO TUNE ACCESS
MANUAL TUNE ACCESS
SOUND SYS 5. 5MHZ
COLOUR SYS AUTO
FINE TUNE ACCESS
OFF

4



Push the "PRE." (PRESET) Button twice.

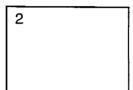
How to Cancel the Fine Tuning



Cancelling previously adjusted (manually) fine tuning, means re-activating the AFC (Automatic Frequency Control) Function, also know as AFT (Automatic Fine Tuning). Re-activating the Automatic Fine Tuning means albaming the set to automatically tune to the optimum tuning position, for that programme Number.

1 0 0

Select the "AFC OFF" Programme Number which you want to return to Automatic Frequency Control (cancel the manual fine tuning).

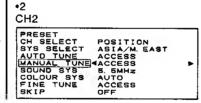


"AFC OFF" Programme Numbers are indicated to you by the "=" symbol to the left of the Programme Numbers in the On-Screen Display.

2



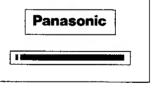
Push the "PRE." (PRESET) Button 4 times, setting the Preset menu to "MANUAL TUNE".



Manual Search Condition.

3

Push the Volume Up "+" or Down "-" Button, briefly.



The best tuning position is automatically memorized. (In other words, manually tune away from the transmission, and then back to it.)

CH2

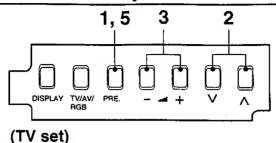
PRESET
CH SELECT POSITION
SYS SELECT ASIA/M EAST
AUTO TUNE ACCESS
MANUAL TUNE ACCESS
SOUND SYS
COLOUR SYS AUTO
FINE TUNE ACCESS
SKIP OFF

4



Push the "PRE." (PRESET) Button 5 times.

Programme Number Skip

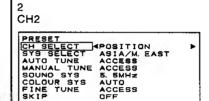


It is possible to skip Programme Number on which no TV stations are tuned appearing on the screen. The function is only effective when selecting Programme Numbers by pushing the Programme Number Up or Down Button either on the TV set or the Remote control.

1



Push the "PRE." (PRESET) Button 8 times, setting the Preset menu to "SKIP".

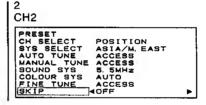


Channel Skip Condition.

2



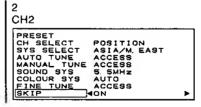
Select a Programme Number you want to skip by pushing the Programme Number Up "Ÿ" or Down "∨" Button.



3



Push the Volume Up "+" or Down "-" Button.



The displayed "OFF" condition changes to "ON".

4



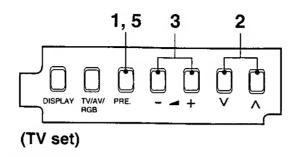
Repeat Steps 2 and 3 for the remaining Programme Numbers for which the Skip function is desired.

5



After the Skip Operation is completed, push the "PRE." (PRESET) Button (once).

How to Cancel the Skip Function



1

Push the "PRE." (PRESET) Button 8 times, setting the Preset menu to "SKIP".

PRESET
CH SELECT POSITION
SYS SELECT ASIA/M. EAST
AUTO TUNE ACCESS
MANUAL TUNE ACCESS
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE ACCESS

Channel Skip Condition

2



Select a skipped Programme Number, by pushing the Programme Number Up "\" or Down "\" Button.

PRESET
CM SELECT POSITION
SYS SELECT ASIA/M. EAST
AUTO TUNE ACCESS
MANUAL TUNE ACCESS
SOUND SYS S. SMMZ
COLOUR SYS AUTO
FINE TUNE ACCESS
SKIP 40N

3



Push the Volume Up "+" or Down "-" Button.

CH2

PRESET
CH SELECT POSITION
SYS SELECT ASIA/M. EAST
AUTO TUNE ACCESS
MANUAL TUNE ACCESS
SOUND SYS 5. 5MMZ
COLOUR SYS AUTO
FINE TUNE ACCESS
SKIP

The displayed "ON" condition changes to "OFF".

4



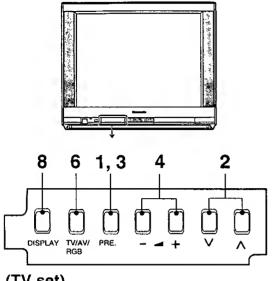
Repeat Steps 2 and 3,if you wish to cancel the skip function on any other Programme Number.

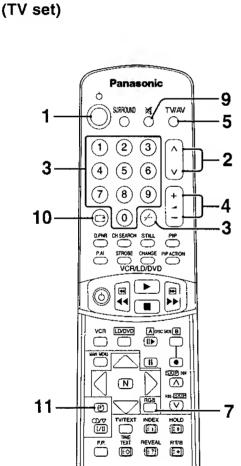
5

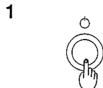


After the Skip Cancel Operation is completed, push the "PRE." (PRESET) Button (once).

General Operation







How to switch the power ON or OFF

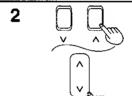
The TV set must first be switched on at the wall outlet and at the Power Switch. (Refer to page 9)

Push this button to turn the TV set ON, from STANDBY mode.

Push it again to turn the TV set OFF, STANDBY mode.

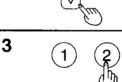
Note:

It is also possible to turn the TV set on STANDBY by pushing the "Direct Programme Number Selection" Buttons (0-9) and the "Programme Number Up or Down" Button, either on the set or on the Remote Control.



Programme Number Selection

Push the Programme Number Up "^" or Down "\" Button to select the next higher or lower Programme number.



Direct Programme Number Selection (CH SELECT = POS.)

You can select the numbers directly by pushing "Number 0-9" button and the two digit Numbers by pushing "Two Digit" and "Programme Number" buttons.



Programme Number 8 8
Programme Number 12..... (2)



Direct Programme Number Selection (CH SELECT = DIRECT)

You can select the number directly by pushing the corresponding programme number button.

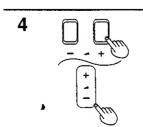
Programme Number 8...... 8

Programme Number 36..... ③ , ⑥

Programme Number 124... \bigcirc , \bigcirc , \bigcirc



When the Skip setting for Programme Number 100 through 125 is on, the channel selection time will be shortened, and thus you can not input three digits at a time.



Volume Adjustment

Push the Volume Up "+" or Down "-" Button to increase or decrease the sound volume level.

VOLUME 12

General Operation

5

TV/AV

TV/AV Mode Selection

Push the "TV/AV" Button to select TV,AV1,AV2,AV3,AV4 input signal modes sequentially.

6



TV/AV/RGB Mode Selection

Push the "TV/AV/RGB" Button to select TV. AV1, AV2, AV3, AV4, RGB input signal modes sequentially.



RGB Mode Selection

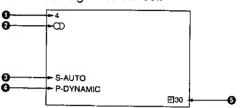
Push the "RGB" mode selection button

10



Recall Button

Push the "Recall" Button to display the current system status. Push again to cancel.



- Programme Number (Refer to page 34)
- Audio Mode (Refer to page 43)
- 6 Sound Menu (Refer to page 45)
- Picture Menu (Refer to page 44)
- 6 OFF Timer (Refer to page 35)

7



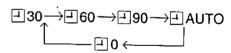
to select the RGB mode. Push the button once again to return the original mode.

11



Off Timer Button

The TV set may be preset to switch to stand-by after a fixed period. By pushing "OFF-Timer" Button,you can select the preset time; either "30", "60", "90" minutes or AUTO Mode.



Setting Off-Timer to AUTO mode. If the set is not switched off when the TV station stops broadcasting it will automatically go to Stand-by Mode after 5 minutes.

Note:

Off-Timer setting will not operate in AUTO mode when the Television set is in AV Mode.

8



Display Button

By pushing the Display button various demonstrations and on screen displays will appear.

Push the Display button a second time to halt the display/demonstration mode, and return the set to the nomal viewing condition.

Note:

When this button is pushed, the Picture and Sound Menus change to Picture (DYNAMIC) and Sound (DYNAMIC).

9



Mute Button

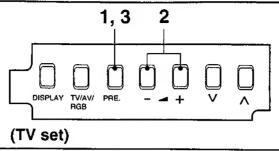
Push this button to mute the sound completely.

The "Mute" symbol will appear. (colour change to Red)

Push the button once again to restore the previous sound level, and cancel the mute.

General Operation

Sound System Selection (Different countries use differing systems)



This function is used only in the TV mode, and is not applicable in AV Mode when the sound is not clear or no sound is produced on a Programme Number.

1



Push the "PRE." (PRESET) Button 5 times.

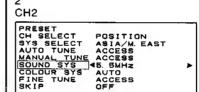
2
CH2

PRESET
CH SELECT
SYS SELECT
AUTO TUNE
ACCESS
MANUAL TUNE
ACCESS
SQUND SYS
GOLOUR SYS
TOLOUR SYS
TOLOUR

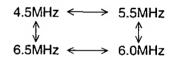
Sound System Condition.

2

Push the Volume Up "+" or Down "-" Button repeatedly until the optimum sound is obtained.



The sound system will change as shown.



Note:

These are different sound broadcast transmission systems applicable to differing countries.

3



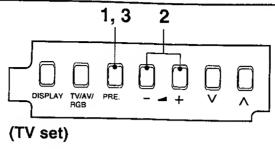
Push the "PRE." (PRESET) Button 4 times.

This returns the set to the normal viewing condition.

The selected Sound System is automatically memorised.

General Operation

Colour System Selection (Different countries use differing systems)

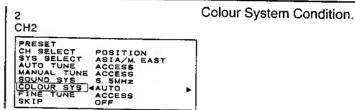


If a clear picture with current colours cannot be obtained when a Broadcast or AV signal is received.

1



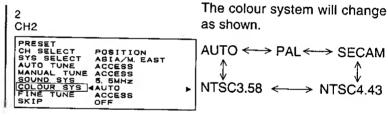
Push the "PRE." (PRESET) Button 6 times.(In AV Mode it is only necessary to push the "PRE." (PRESET) button once.)



2



Push the Volume Up "+" or Down "-" Button repeatedly until the optimum image is produced.



Note:

- (1) The Preset mode of DVD main picture (Y,PB,PR) is the setting for AV4.
- (2) PAL,SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to differing countries NTSC 4.43 is a trick playback mode used in special VCR's to playback NTSC recorded video tapes through PAL television equipment.

3

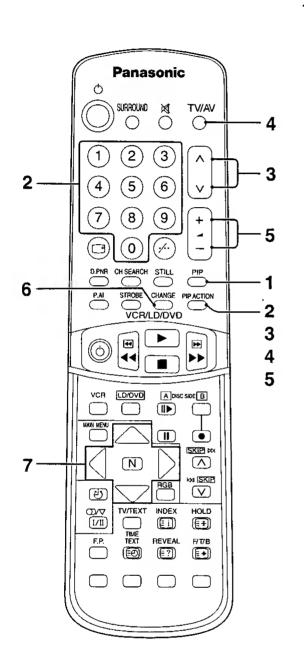


Push the "PRE." (PRESET) Button 3 times. (In the AV mode, push the "PRE." (PRESET) button once.)

This returns the set to the normal viewing condition.

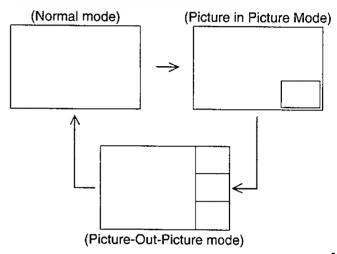
The selected Colour System is automatically memorised.

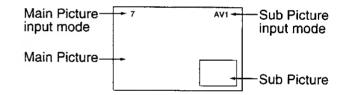
PICTURE IN PICTURE Operation (TC-29P100R is not equipped)



The TV broadcast signals and the external signals can be viewed simultaneously. By pushing the PIP button to view the following PIP conditions.

PIP condition is as shown below





Note:

- (1)The DVD (Y,PB,PR) signal does not display a subpicture.
- (2)When the set is in PIP mode, the left and right picture are processed by two different circuits. Therefore there may be a minor difference in clarity between the pictures.

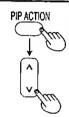
2



Sub picture Direct Programme (Channel) Number Selection

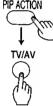
Push the "PIP ACTION" button and Direct programme Number Selection button to select the programme number during the Sub Picture input mode indication is blinking.

3



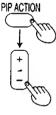
Sub picture Programme Number Selection

Push the "PIP ACTION" button and Programme Number Up "^" or Down "V" Button to select the next higher or lower programme number.



Sub picture TV/AV Mode Selection Push the "PIP ACTION" button, and TV/ AV Button to select TV, AV1, AV2, AV3, AV4 input signal mode seguentially.

5



Sub Headphones Volume adjustment

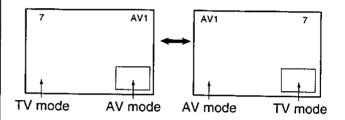
Push the "PIP ACTION" button, and volume Up "+" or Down "-" Button to increase or decrease the sub Headphones volume level.

The volume for the main picture on subpicture can be adjusted separately.



CHANGE

Push the "CHANGE" Button to SWAP from Main picture to sub picture and vice versa.



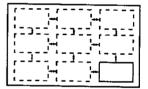
7



Position Buttons (Only for PIP

mode)

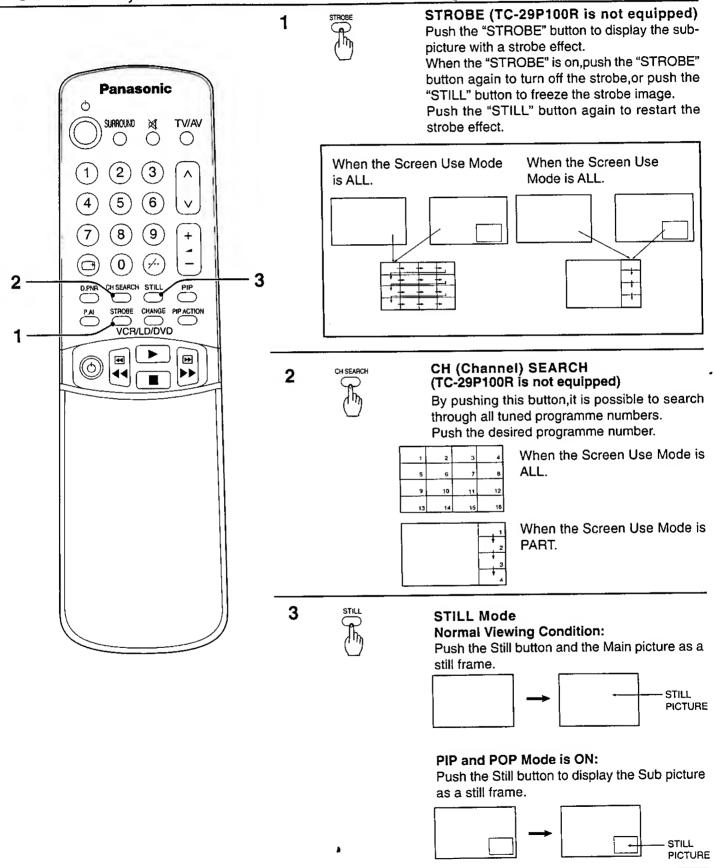
By pushing each "Position" Button, you can select the 9 positions of the Sub Picture on the screen.



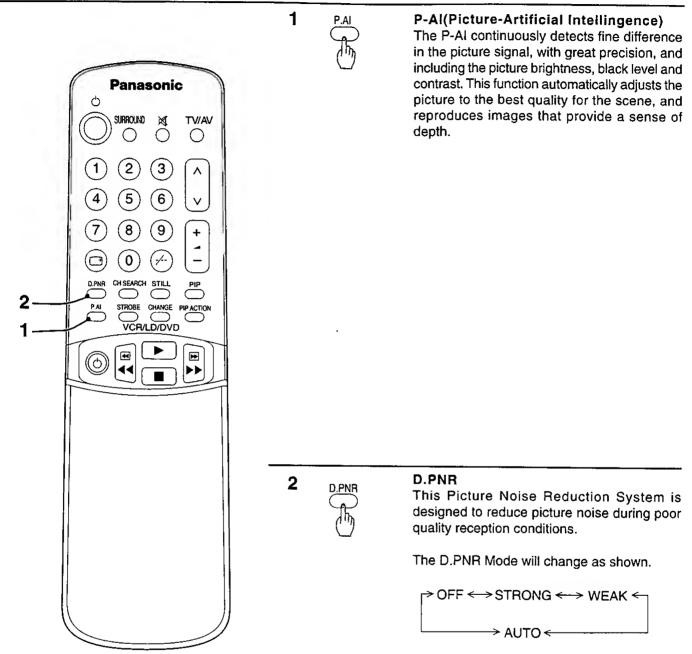
Note:

By pushing the Normal "N" Button while the picture in picture mode is activated, the Sub Picture position will move to the bottom Right corner.

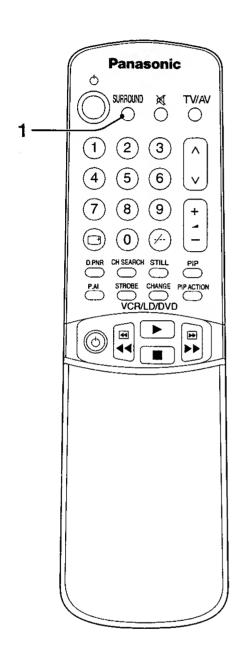
STROBE, CH SEARCH and STILL Operation



P.Al and D.PNR Operation



Surround Operation





Surround Button

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround effect can be obtained without the use of external surround speakers.

On screen display durning surround mode.

	Type of broadcast	On-screen display	
rv Mode	MONO (Including STEREO switched to MONO by you) and BILINGUAL	SURROUND MONO SURROUND OFF	
N VT	• STEREO	SURROUND STEREO . \$\dagger\$ SURROUND OFF	
AV Mode	• Select the AV mode (AV1, AV2, AV3 and AV4)	SURROUND STEREO SURROUND MONO SURROUND OFF	

Note:

If the stereo signal is poor or the receiving conditions are not optimum or if STEREO: MONO automatic switching occurs, it is recommended that "STEREO" swith to MONO (Refer to page 43) be used. If problems or unusual sudden effects are encountered in any of the surround modes, it is recommended that "SURROUND OFF" be selected.

Stereo Reception (TC-29P100R is not equipped)



When you receive the stereo/bilingual sound system, sound output modes can be selected by pushing the stereo/bilingual sound selection button.

Audio Signal	Mode Indicator
STEREO	\odot
MAIN I	I
SUBI	П
MONO	∇

	Type of broadcast	Mode Indicator
	Regular broadcast (Standard Audio)	No Indicator
NICAM	Regular + NICAM MONO I (MAIN I)	I → ▽
N	NICAM STEREO	∅ ↔ ∇
	NICAM DUAL MONO (MAIN I / SUB II)	ĭ → II
	Regular broadcast (Standard Audio)	No Indicator
A2 (German)	BILINGUAL or DUAL MONO : MAIN I / SUB II	I П
1	STEREO	\bigcirc \leftarrow \vee

Note:

(1)The "A2(German)" stereo/bilingual TV sound transmission system is used in the following countries; Australia, Malaysia, Thailand, Indonesia, etc.

Panasonic

The "NICAM" stereo TV sound transmission system is used in the following countries; New Zealand, Singapore, Hong Kong and China.

(2)If the stereo signal is poor or the receiving conditions are not optimum of if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.

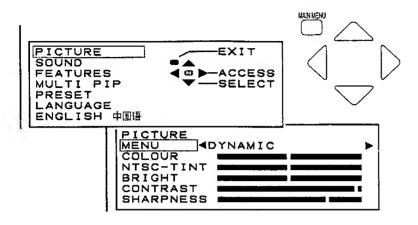
When the broadcasting mode changes to "STEREO" or "MONO" after you have selected "MONO" mode, change over to "STEREO" mode will be made automatically.

Note:

- (1) Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- (2) When the receiving conditions dereriorate, listening will be easier if the mode is set to the "MONO" position, using the stereo/bilingual sound selection button.
- (3) "DUAL", also known as "DUAL MONO" or as "BILINGUAL" is not currently transmitted in some countries.



Picture Menu Operation



- 1. Push the "Main Menu" Button.
- 2.Select the "Picture" Menu by pushing the Position Up "△" or Down "∨" Button and Access the "Picture" Menu by pushing the Position Left "<" or Right ">" Button.
- 3.Choose the option and adjust by pushing the Position Up "∧" or Down "∨" buttons,and by setting with the Position Left "<" or Right ">" buttons.

Picture Menu	Function
DYNAMIC	For viewing in brighter environments. This menu selects a higher than normal levels of Brightness and Contrast.
STANDARD	For viewing in normal (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.
SOFT	For viewing in a dark room. This menu selects reduced levels of Brightness and Contrast.

- 1. You can change the level of each Function (COLOUR, NTSC-TINT, BRIGHT, CONTRAST, SHARPNESS) for each picture Menu.
- 2.Picture menu mode will be memorized for each TV,AV1,AV2,AV3 and AV4 mode.

Item	Effect	Indicator	
COLOUR	Less Mora	COTONW 75	
NTSC-TINT	Reddish Greensh	NTSC-TINT 32	
BRIGHT	Datker Brighter	SAIGHT 32	
CONTRAST	Loss More	CONTRAST 32	
SHARPNESS	Last More	SHARPNESS 32	

Note:

- (1)When the to Multi PIP mode and Picture-in-Picture mode, the main and sub pictures are both adjusted simultaneously.
- (2) Even if the TV is not set to "NTSC" mode, "NTSC-TINT" will be displayed and level adjustment would be possible. But it would not function.
- (3) When the RGB/TEXT mode, NTSC-TINT and SHARPNESS will not displayed.

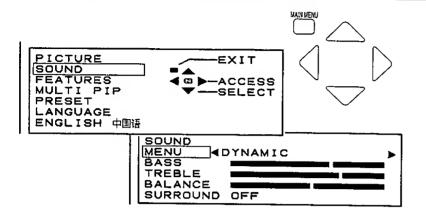
PHelpful Hint (NNormalization)

By pushing the Normal "N" Button on the Remote Control while the Picture menu is displayed, the selected menu will be changed to the Normal Mode.

Normalisation will not occur if the menu is not displayed when the "N" Button is pushed.

The Normal mode is the factory preset condition. Returning to this original condition is called "Normalisation".

Sound Menu Operation



- 1. Push the "Main Menu" Button.
- 2.Select the "Sound" Menu by pushing the Position Up "\" or Down "\" Button and Access the "Sound" Menu by pushing the Position Left "<" or Right ">" Button.
- 3. Choose the option and adjust by pushing the Position Up "∧" or Down "∨" buttons, and by setting with the Position Left "<" or Right ">" buttons.

Sound Menu	Function
DYNAMIC	Amplifies the Low frequencies and outputs optimum sound. For music programmes for example.
STANDARD	For Normal use.
AUTO	Sound and Music signals are altered and the best sound is automatically adjusted: sound (e. g. News and Human voice, etc.) is adjusted so as to be easy to hear and music is adjusted to give background impression.

- 1. You can change the level of each Function (BASS,TREBLE) for each Sound Menu.
- 2.Sound menu mode will be memorized for each TV,AV1,AV2,AV3 and AV4 mode.

Item	Effect	Indicator	
BASS	Case More	BASS 32	
TREBLE	Less More	TAEBLE 32	
BALANCE	Lati SP Flight SP.	BALANCE 32	

Note:

- (1)When set to Multi PIP mode and Picture-in-Picture mode,the main and sub sound are both adjusted simultaneously.
- (2)When SOUND AUTO mode is selected in Sound Menu Operation, BASS and TREBLE can not be adjusted.

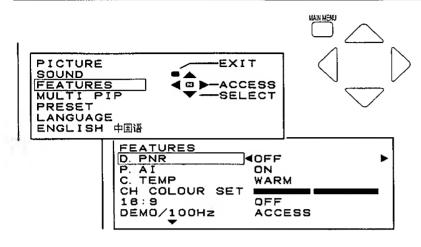
Helpful Hint (Normalization)

By pushing the Normal "N" Button on the Remote Control while the Sound menu is displayed, the selected menu will be changed to the Normal Mode.

Normalisation will not occur if the menu is not displayed when the "N" Button is pushed.

The Normal mode is the factory preset condition. Returning to this original condition is called "Normalisation".

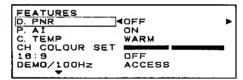
Features Menu Operation



- 1.Push the "Main Menu" Button.
- 2.Select the "FEATURES" Menu by pushing the Position Up "∧" or Down "∨" Button and Access the "Features" Menu by pushing the Position Left "<" or Right ">" Button.
- 3.Choose the option and adjust by pushing the Position Left "<" or Right ">" buttons, and by setting with the Position Left "<" or Right ">" buttons.

D.PNR (Picture Noise Reduction) Mode (No indication in RGB input mode)

This Picture Noise Reduction System is designed to reduce picture noise during poor quality reception conditions.

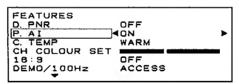


P.Al Mode

(No indication in RGB input mode)

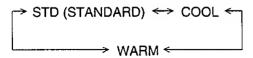
The P.Al continuously detects fine differences in the picture signal, with great precision, and including the picture brightness, black level and contrast.

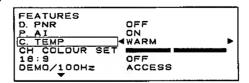
This function Automatically adjusts the picture to the best quality for the scene, and reproduces images that provide a sense of depth.



C.TEMP (Colour Temperature) Mode

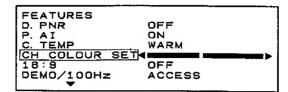
The C.TEMP (Colour Temperature = classifying white light) will change as follows.





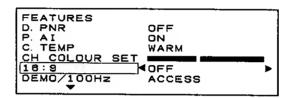
CH COLOUR SET Mode (No indication in RGB input mode)

Colour density varying between broadcast channels can be adjusted to three levels for each reception channel.



16:9 Mode (No indication in RGB input mode)

When the 16:9 mode is ON, the screen ratio becomes 16:9.

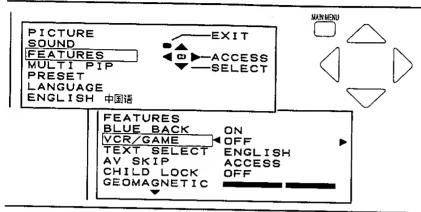


DEMO/100Hz Mode (No indication in RGB / TEXT mode)

Demonstrates the 100Hz Super Digital Scan System and the 50Hz Scan System. (When the NTSC signal is received, this Mode is not displayed.)

100Hz	50Hz

Features Menu Operation



- 1.Push the "Main Menu" Button.
- 2.Select the "FEATURES" Menu by pushing the Position Up "\" or Down "\" Button and Access the "FEATURES" Menu by pushing the Position Left "<" or Right ">" Button.
- 3. Choose the option and adjust by pushing the Position Up "\" or Down "\" buttons, and by setting with the Position Left "<" or Right ">" buttons.

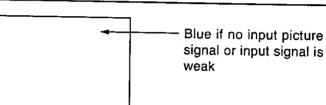
BLUE BACK Mode

When no picture signal is received, or the signal is weak, the screen reverts to a blue background colour and the Sound is muted.

Disable this Feature to continue watching very weak signals.

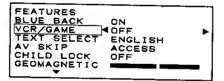
Note:

If BLUE BACK Mode is set on while a VCR signal is being viewed, selecting CUE or REVIEW may cause the screen to revert to the blue background colour. Disable this Feature to view correctly.



VCR/GAME Mode (No indication in RGB input mode)

Reproduction of irregular signals, such as certain TV games and rental video tapes, may be improved.



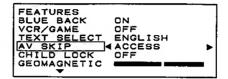
TEXT Select Mode (No indication for TC-29P100G, TC-29P100H, TC-29P100R, TC-33P100G, TC-33P100H)

The viewer can select from the following four text languages. Please select the option matching the text signal being received.

Display	Language
ENGLISH	English
CIS	Russian,Estonian,Lithuanian,Ukrain,
E.EUROPE	Polish,Czech,Serbiasn,Rumanian

AV Skip Mode (No indication in RGB input mode)

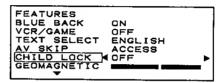
When the AV Skip Mode is set on, this step is skipped at the time of selection with the TV/AV, or TV/AV/RGB button.



CHILD LOCK Mode

(No indication in RGB / TEXT input mode)

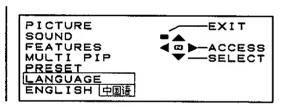
If the Child-Lock function is set ON, picture and sound of the TV/AV mode being viewed will desappear and a Blue -Back screen will appear.

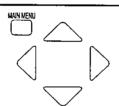


GEOMAGNETIC Mode

Refer to page 11.

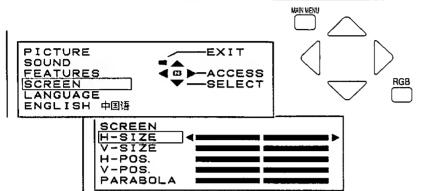
Language Menu Operation





- 1. Push the "Main Menu" Button.
- 2.Select the "Language" Menu by pushing the Position Up "\" or Down "\" Button.
- 3.Push the Position Left "<" or Right ">" Button.The on-screen language display will change.

SCREEN Menu Option

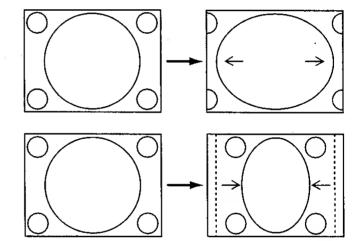


- 1.Push the "RGB" button on the Remote Control to select the RGB mode.
- 2. Push the "Main Menu" Button.
- 3.Select the "SCREEN" Menu by pushing the Position Up "△" or Down "∨" Button and Access the "SCREEN" Menu by pushing the Position Left "<" or Right ">" Button.
- 4.Choose the option and adjust by pushing the Position Up "∧" or Down "∨" buttons,and by setting with the Position Left "<" or Right ">" buttons.

H-SIZE Mode

Push the Position Right ">" button to adjust the H-SIZE.

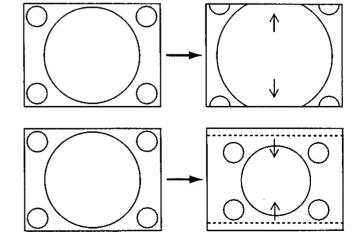
Push the Position Left "<" button to adjust the H-SIZE.



V-SIZE Mode

Push the Position Right ">" button to adjust the V-SIZE.

Push the Position Left "<" button to adjust the V-SIZE.

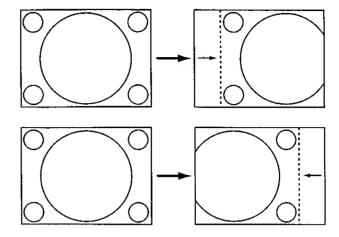


it. Balande Australia III. Balancia (1911), esperatus

H-POS Mode

Push the Position Right ">" button to shift the image right.

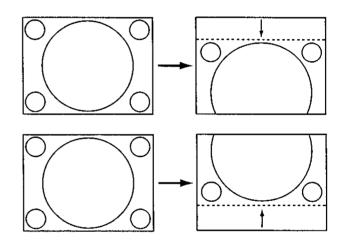
Push the Position Left "<" button to shift the image left.



V-POS Mode

Push the Position Right ">" button to shift the image down.

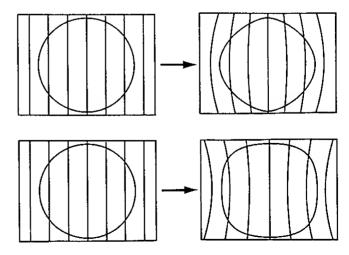
Push the Position Left "<" button to shift the image up.



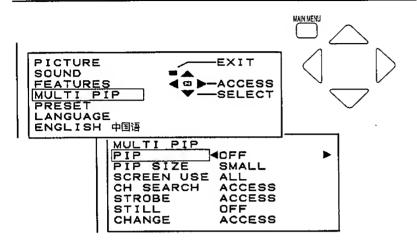
PARABOLA Mode

Push the Position Right ">" button to extended the top and the botton of the image.

Push the Position Left "<" button to shrink the top and the botton of the image.



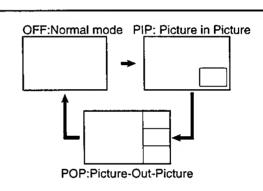
Multi PIP Menu Operation



- 1.Push the "Main Menu" Button.
- 2.Select the "Multi PIP" Menu by pushing the Position Up "\" or Down "\" Button and Access the "Multi PIP" Menu by pushing the Position Left "<" or Right ">" Button.
- 3.Choose the option and adjust by pushing the Position Up "∧" or Down "∨" buttons,and by setting with the Position Left "<" or Right ">" buttons.

PIP Mode

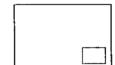
Select the PIP Mode or POP Mode.



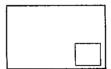
PIP SIZE Mode

This feature allows the user to change the sub picture size in PIP mode.

SMALL 1/16 size of the main picture LARGE 1/9 size of the main picture



When the PIP size Mode is SMALL:

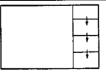


When the PIP size Mode is LARGE:

SCREEN USE Mode

When using the strobe or channel search functions, select whether these features are to apply to the full screen, or to the sub-screen.

PART Sub screen strobe/channel search ALL Main screen strobe/channel search



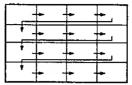
When the Screen Use Mode is PART:



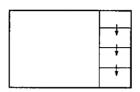
When the Screen Use Mode is ALL:

CH (Channel) SEARCH Mode

When the CH SEARCH mode is ON, it is possible to search through all tuned programme numbers, Push the desired programme numbers.



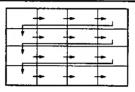
When the Screen Use Mode is ALL:



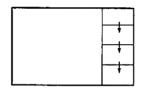
When the Screen Use Mode is PART:

STROBE Mode

When the STROBE mode is ON,to display the sub-picture with a strobe effect.



When the Screen Use Mode is ALL:

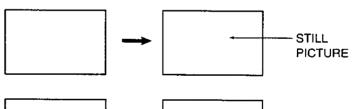


When the Screen Use Mode is PART:

STILL Mode

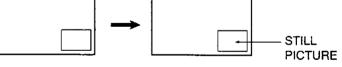
Normal Viewing Condition:

STILL Mode on and the Main picture as a still frame



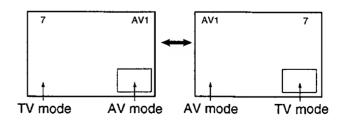
PIP and POP Mode is ON:

STILL Mode on to display the sub picture as a still frame

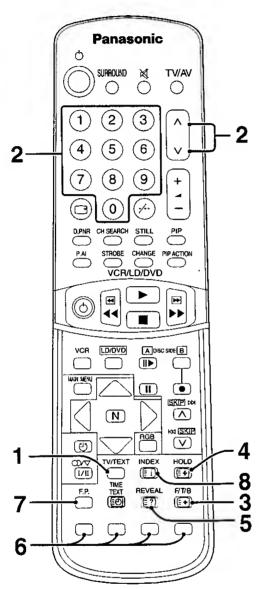


CHANGE Mode

When the CHANGE Mode is ON to Swap from Main picture to sub picture and vice versa.



(For TX-29/33P100 Series, TX-68/79P100 Series)



- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- · When in teletext mode, the volume may still be altered to the desired listening level.

What is LIST mode?

In LIST mode, four different coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, push the appropriately coloured button. This facility enables fast access to information of the subjects shown.

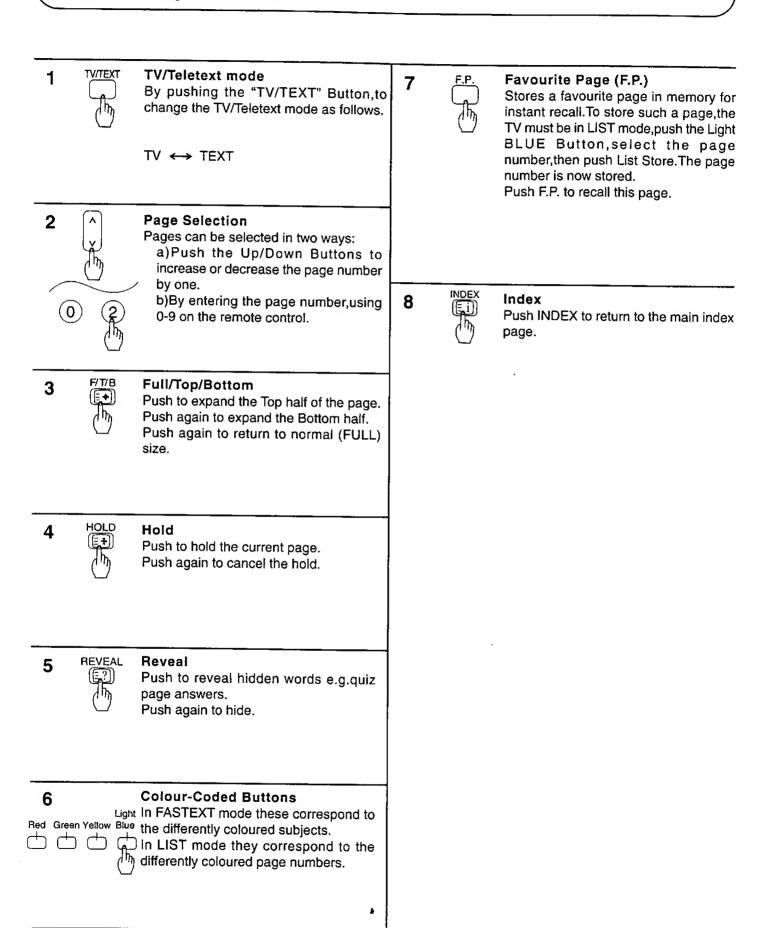
What are the advantages?

- Page selection at the touch of a Colour-coded Button.
- · Easy to use step-by-step selection of the topics subject.
- Reduction of waiting time.
- Page status line at bottom of screen so you always know which Button will take you to the desired information.

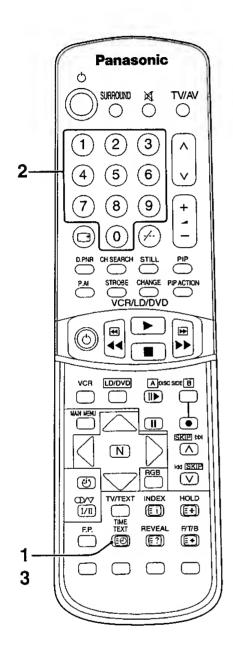
Note:

Characters will be illegible unless you select the Text Language which matches the text being received.

Select the correct Text Language (Refer to page 48).



Sub Coded Page Access



The TEXT Menu will be displayed in TEXT mode. When teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found. Select the required page number using Buttons 0-9.

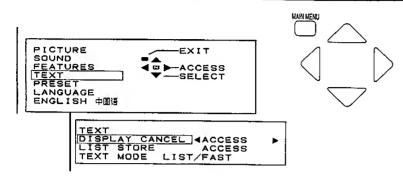
Push the TIME TEXT button.

Push the TIME TEXT button.

Enter desired sub page number. To select page 6 enter 0,0,0 and 6.

Push the TIME TEXT button.

TEXT Menu Operation



- 1.Push the "TV/TEXT" button on the Remote Control to select the TEXT mode.
- 2.Push the "Main Menu" Button.
- 3.Select the "TEXT" Menu by pushing the Position Up "\" or Down "\" Button and Access the "TEXT" Menu by pushing the Position Left "<" or Right ">" Button.
- 4.Choose the option and adjust by pushing the Position Left "<" or Right ">" buttons, and by setting with the Position Left "<" or Right ">" buttons.

DISPLAY CANCEL

Push the Position Left "<" or Right ">" button to view the TV picture whilst searching for a Teletext page. When found, the screen will display the page number at the top left.

News Flash

When a news flash page has been selected, push Position Left "<" or Right ">" button to view the TV picture, when an update is received, it will be displayed on screen.

Update

Push Position Left "<" or Right ">" button to see the update of information on certain pages. When an update is received, the page number will be displayed at the top left of the screen.

LIST STORE

In LIST mode the four page numbers can be altered for channel position. To do this, push one of the colour coded buttons and enter the new page number.

Push and hold List store, the page number will change colour.

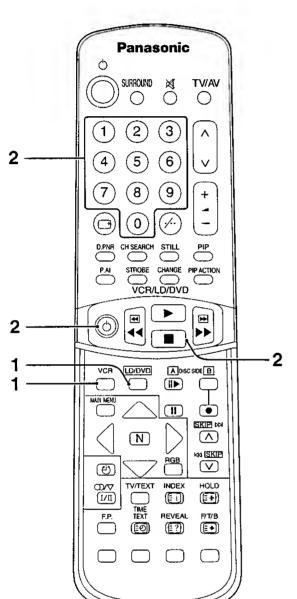
TEXT MODE

Push to change from FASTEXT mode to LIST mode and vice versa.

In FASTEXT mode four differently coloured subjects are displayed at the bottom of the page. Push the appropriate coloured Button to access more information about one of these subjects.

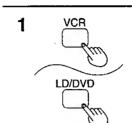
Operation of the VCR/LD/DVD

Manufacturer setting



Remote Control Operation is possible for the VCR's,LD's and DVD's of the various manufacturers.

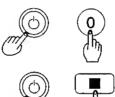
After completion of setting, execute the various operations after pushing the VCR or the LD/DVD button.



Push the button of the unit to be set (VCR or LD/DVD).



While pushing the VCR/LD/DVD Power button, push the manufacturer code setting (enter the two digit code), and push the VCR/LD/DVD Stop button.



VCR

	Manufacturer	Code	Manufacturer	Code	
ĺ	Panasonic/	10,11,12,13	NEC	40,41,42,43	
	National	10,11,12,13	ORION	45,46	
	AlWA	15,16	PHILIPS	50	
	FUJITSU	20	SANYO	55,56,57,58	İ
	HITACHI	25,26,27	SHARP	60,61	l
	JVC	30,31,32	SONY	65,66,67	
	MITSUBISHI	35,36	TOSHIBA	70,71	

LD

Manufacturer	Code	Manufacturer	Code
Panasonic	10,11,12,13	SAMSUNG	30
KENWOOD	15,16	SHARP	35
PHILIPS	20	SONY	40,41,42,43
PIONEER	25		

DVD

Manufacturer	Code
Panasonic	70

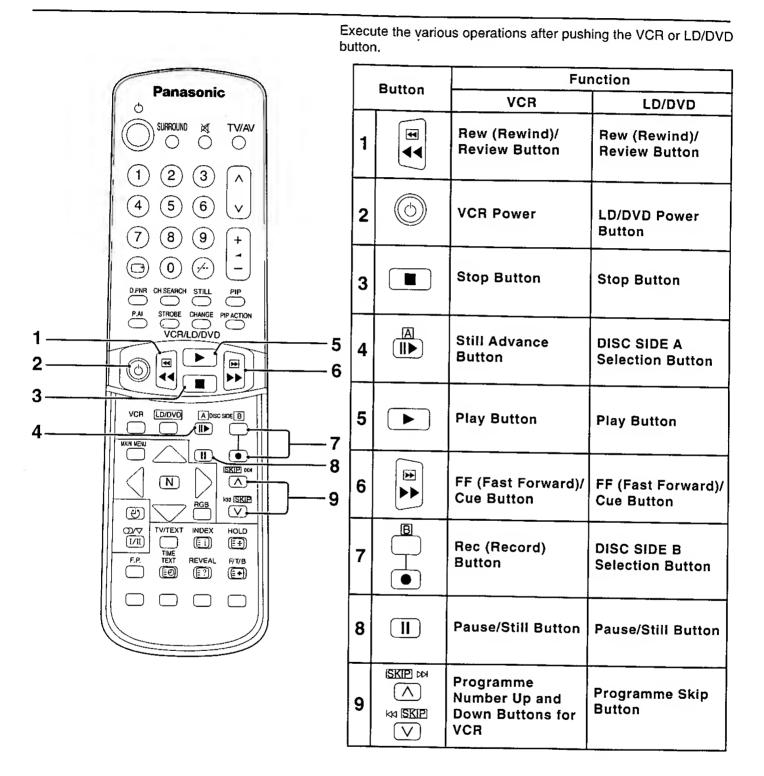
NOTE:

After setting, execute operation confirmation. If there is no operation, set a different code.

* Helpful Hint

- (1)The respective VCR/LD/DVD manufacturer code is cancelled when battery has been exchanged. please set it again.
- (2)Depending on the model, operation of VCR's, LD's or DVD's of the manufacturers listed above may not be possible.
- (3)In some cases, new products may not be operative.
- (4)It will not operate with other than the above manufactures.

Operation of the VCR/LD/DVD



Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms				
Picture	Sound	Checks		
Snowy Picture	Noisy Sound	Aerial Location, direction or Connections		
Multiple Image	Normal Sound	Aerial Location, direction or Connections		
Interference	Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent Lamps		
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)		
? No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness/Volume setting (Check by pushing the Power Switch or Stand-by Button on the Remote Control.)		
No Colour	Normal Sound	Colour Control		
Scrambled	Normal or Weak Sound	Retune Channels		
Coloured Patches	Normal Sound	Magnetic interference from unshielded equipment TV set moved while "ON" Turn the TV set off for 30 mins, using the "Power" Switch on the TV set.		
No Colour	Noisy Sound	Sound System (Refer to page 36) Colour System (Refer to page 37)		

Specifications

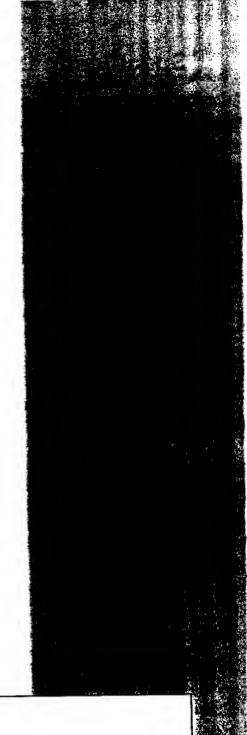
Power Source	TX-29P100X,TX-33P100X AC Auto 110-240 V, 50/60 Hz TX-68P100Z,TX-79P100Z AC Auto 230-240 V, 50 Hz	TC-29P100G, TC-29P100R TC-29P100H(only 50 Hz), TC-33P100G, TC-33P100H(only 50 Hz) AC 220 V, 50/60 Hz			
Power Consumption	TX-68P100Z,TX-29P100X TC-29P100G/H/R 191W Stand-by condition 0.7 W	TX-79P100Z,TX-33P100X TC-33P100G/H 219W Stand-by condition 0.7 W			
Receiving System	21 Systems 1	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders			
	8 NTSC 4.43/5.5 MHz 9 NTSC 4.43/6.0 MHz 10 NTSC 4.43/6.5 MHz 11 NTSC 3.58/5.5 MHz 12 NTSC 3.58/6.0 MHz 13 NTSC 3.58/6.5 MHz 14 SECAM I	Playback from Special VCR's			
	15 PAL 60 Hz/5.5 MHz 16 PAL 60 Hz/6.0 MHz 17 PAL 60 Hz/6.5 MHz 18 SECAM 60 Hz/5.5 MHz 19 SECAM 60 Hz/6.0 MHz 20 SECAM 60 Hz/6.5 MHz 21 NTSC 50 Hz/4.5 MHz	Playback from Special Disc Players and Special VCR's			
Receiving Channels	Regular TV VHF BAND 2-12 (PAL/SECAM B,K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z) 1-12 (PAL/SECAM D) 1-12 (NTSC M Japan) 2-13 (NTSC M U.S.A) CATV S1-S20 (OSCAR) 1-125 (U.S.A CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA) 5A,9A (AUST.)	UHF BAND 21-69 (PAL G,H,I/SECAM G,K,K1) 28-69 (PAL B AUST.) 13-57 (PAL D,K) 13-62 (NTSC M Japan) 14-69 (NTSC M U.S.A)			
Receiving Stereo System	NICAM I, NICAM B/G, NICAM D, A2 (German) (TC-29P100R is not equipped)				

Specifications

Tuning System	Frequency synthesizer Auto Search Tuning	POS (Position) DIRECT	: 100 Position : 125 Position			
Picture Tube	Overall Picture tube measure Viewable Picture tube measu CRT Deflection	Ti ed diagonally	X-68P100Z,TX-29P100X C-29P100G/H/R 73 cm 68 cm 104°	TX-79P100Z,TX-33P100X TC-33P100G/H 85 cm 79 cm 104°		
Audio Output	40 W [17 W + 17 W + 6 W (Centre Speaker)]					
Headphones	3.5 mm Plug	3.5 mm Plug				
Aerial Impedance	75 Ω Unbalanced	75 Ω Unbalanced coaxial				
Video/Audio Terminals	AV 1,2,3,4 Monitor Out AV1 IN(Rear) : S-Video,Video,Video,Video,Video,Video,Video,AV3 IN(Rear) : Video,Audio AV4 IN(Rear) : Video or Y/P	eo,Audio L/R RGB L/R terminals _B /P _R ,Audio L/R terr	C:0 R) 1 V App 1 V App nals terminals	Vp-p,75 Ω 1.3 Vp-p,75 Ω p-p,75 Ω prox. 0.4V 47K Ω p-p,75 Ω prox. 0.4V 1K Ω		
Accessories Supplied	Remote control Transmitter TNQE158 ····· TX-29P100X,TX-68P100Z,TX-33P100X,					
Optional Auessories	Set Stand		X-68P100Z,TX-29P100X C-29P100G/H/R TY-S29P100	TX-79P100Z,TX-33P100X TC-33P100G/H TY-S33P100		
Dimensions (W×D×H)	TX-68P100Z,TX-29P100X TC-29P100G/H/R 688 mm × 492 mm × 570 mr	ד	TX-79P100Z,TX-33P100X FC-33P100G/H 90 mm × 555 mm ×	-		
Weight (Mass)	TX-68P100Z,TX-29P100X TC-29P100G/H/R 51.0 kg (Net)	-	TX-79P100Z,TX-33P1002 TC-33P100G/H I.0 kg (Net)	X		

Note:

Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.



Customer's Record

The model number and serial number of this product can be found on its cover. You should note this serial number in the space provided below and retain this book plus your purchase receipt as a permanent record of your purchase to aid in identification in the event of theft or loss,and for Warranty Service purposes.

Model Number

Serial Number

Matsushita Electric Industrial Co.,Ltd.

Central P.O. Box 288,Osaka 530-8692,Japan

Printed in Japan S1098S0(MS)

